(54) GYROSCOPE APPARATUS

(57)Abstract:
PURPOSE: To reduce the effect of heat and to stabilize the output of a gyroscope in a
short time by arranging a multiplier and a preamplifier which are heat sources
separately at the upper and lower parts on one side of a board with respect to the 90°
phase shifter of a signal detecting circuit.
CONSTITUTION: A multiplier 12 and a preamplifier IC 85 which are heat sources are
separately arranged at upper and lower parts on one side of a printed board 64 with
respect to a 90° phase shifter 50 in a gyroscope-signal detecting circuit. Variable
resistors 71 - 73 which are relatively hard to receive the effect of heat are arranged at
the center of the board 64. The 90° phase shifter 50 which is liable to receive the effect
of heating is arranged on the other side of the board 64 which is separated from the
multiplier 12 and the preamplifier IC 85. As a result, the temperature increase for
capacitors and resistors which determine the phase of the 90° phase shifter 50 is
prevented. The bias fluctuation in the output of the gyroscope after starting is decreased,
and the stabilized output of the gyroscope can be obtained in a short time.

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